

GENERAL NOTES

- All work shall be in accordance with the State Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only and are intended to indicate the intent, extent and general arrangement of work. They are not meant to show every fitting, change of direction, or every situation. Verify locations in the field. Mark indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors. Reserve space for sprinkler mains. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- All plumbing fixtures shall be vented.
- This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- For pipe sizes not shown on floor plans, refer to: adjacent or enlarged plumbing plans, then appropriate schedules, details, specifications, equipment connection sizes and minimum Code requirements. For otherwise indeterminate pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. When a conflict exists, the larger size shall govern. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise. Special care shall be taken when dropping 3" nominal pipe in 3½" wall cavities to ensure correct fit and alignment.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping containing liquid 2" and larger shall be supported from the top chord of bar joists unless permission to do otherwise is obtained from the Structural Consultant. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- All piping through roofs, concrete walls and masonry partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All domestic and storm water piping shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or drain lines shall be run in exterior walls, unless directly indicated.
- Provide shock absorbers where shown on drawings, and on tops of risers to all flush valves, dishwashers and clotheswashers. Sizes shall conform to F.D.I. standards.
- All sanitary waste piping less than 4" shall pitch down at 1" per L.F. All 4" and larger piping shall pitch at 1/4" per L.F. when possible. No sanitary waste piping under slab shall be less than 2" in diameter.
- All Domestic copper water piping shall be type "K" or "L" copper; type "M" is prohibited.

ABBREVIATIONS, LINE TYPES & SYMBOLS

140	140 DEG F HOT WATER	140	INDIRECT WASTE LINEAR FEET	INDIRECT WASTE PIPING BELOW SLAB
AT	AT	LF	LF	SANITARY / WASTE PIPING ABOVE SLAB
A	AMPS, AGUASTAT	LV	LV	INDIRECT WASTE PIPING ABOVE SLAB
ADA	AMERICANS WITH DISABILITIES ACT	MTD	MTD	VENT PIPING ABOVE SLAB
AFF	ABOVE FINISHED FLOOR	MV	MIXING VALVE	VENT PIPING BELOW SLAB
BFP	BACKFLOW PREVENTER	OD	OUTSIDE DIAMETER	STORM WATER PIPING ABOVE SLAB
BLV	BALL VALVE	PC	PUMPING CONTRACTOR	STORM WATER PIPING BELOW SLAB
BD	BALANCE VALVE	FDI	FLUEBING & DRAINAGE INSTITUTE	COLD WATER PIPING
CD	CLOTHES DRYER	FG	PRESSURE GAUGE	COLD WATER PIPING BELOW SLAB
CNTR	COUNTER	PH	PHASE	TRAP PRIMER PIPING
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE	TRAP PRIMER PIPING ABOVE SLAB
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH	120 HOT WATER PIPING
COORD	COORDINATION	PN	PUMPED WASTE	HOT WATER RETURN PIPING
COTS	CLEANOUT TO GRADE	RAD	RADON	140 HOT WATER PIPING
CM	COLD WATER CLOTHES WASHER	RAM	RISE AT WALL	6AS PIPING
CHM	GOLD # HOT WATER	RD	ROOF DRAIN	RADON VENT PIPING, UNDERSLAB, PERFORATED
DAM	DROP AT WALL	RH	RIGHT HAND	PUMPED WASTE
DCP	DOMESTIC CIRCULATING PUMP	RIC	RISE IN CHASE	BALL VALVE
DEG	DEGREES	RIW	RISE IN WALL	VERTICAL BALL VALVE
DIC	DROP IN CHASE	RUC	RUN UNDER COUNTER	BALANCING VALVE
DIV	DIVISION	RUF	RUN UNDER FLOOR	CHECK VALVE
DIW	DROP IN WALL	RV	RELIEF VALVE	BACKFLOW PREVENTER
DN	DOWN	S	SANITARY WASTE	VACUUM RELIEF VALVE
DNAM	DOWN AT WALL	SA	SHOCK ABSORBER	RELIEF VALVE
DNIC	DOWN IN CHASE	SK	SINK	PRESSURE REDUCING VALVE
DNIM	DOWN IN WALL	SP	SUMP PUMP	THERMOMETER
DO	DRAHOFF	SS	STAINLESS STEEL	PRESSURE GAUGE
DW	DISHWASHER	ST	STACK	TRAP PRIMER
EA	EACH	SV	STACK VENT	DROP/RISE IN LINE
ET	EXPANSION TANK	T	THERMOMETER	LINE UP TO FLOOR ABOVE
FCO	FLOOR CLEANOUT	TP	TRAP PRIMER	TEE - DROP
FD	FLOOR DRAIN	TS	TUB/SHOWER	SHOCK ABSORBER
FFE	FINISHED FLOOR ELEVATION	UIC	UP IN CHASE	UNION
FV	FLUSH VALVE	UDNAMUP & DOWN AT WALL	UP IN CHASE	MIXING VALVE
G	GAS (FUEL)	UDNICUP & DOWN IN CHASE	UP IN WALL	FLOOR CLEANOUT
GAL	GALLONS	UDNIMUP & DOWN IN WALL	UP IN WALL	FLOOR DRAIN
GC	GENERAL CONTRACTOR	V	VENT	MALL CLEANOUT
GHT	GARDEN HOSE THREAD	VB	VACUUM BREAKER	VENT THROUGH ROOF
GFF	GALLONS PER FLUSH	VC	VITREOUS CHINA	HOSE BIB
GM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD	METER METER
GV	GATE VALVE	VRY	VACUUM RELIEF VALVE	PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG
HB	HOSE BIB	V5	VENT STACK	ROOF DRAIN
HC	HEATING CONTRACTOR	VTR	VENT THRU ROOF	
HW	HOT WATER	W	W/TH	
HWR	HOT WATER RETURN	MC	MATER CLOSET, WATER COLUMN	
IE	INVERT ELEVATION	MCO	MALL CLEANOUT	
		MSI	MARY SIDE OF INSULATION	

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	COLD WATER	120° WATER	SAW/ WASTE	VENT	REMARKS	MOUNTING HEIGHT
CD-1	CLOTHES DRYER					1/2" 6, CONNECT W/ FLEX	
CM-1	CLOTHES WASHER SUPPLY & DRAIN UNIT	1/2"	1/2"	2"	1-1/2"	RECESSED	PER MANUF. REQUIREMENTS
LT-1	LAUNDRY TUB	1/2"	1/2"	1-1/2"	1-1/2"	MOLDED STONE, LAUNDRY FAUCET	
MC-1	WATER CLOSET, TANK, FLOOR RID	1/2"		3"	2"	1/2B 6PF 1/2, 1B" TO RIM INSULATED TANK	FLOOR

DRAIN SPEC. SCHEDULE

TAG	ITEM	WASTE SIZE OF PIPE	VENT	REMARKS
FCO-1	ROUND FINISHED AREAS FLOOR CLEANOUT		-	
FD-1	ROUND FINISHED FLOOR DRAIN	3"	1-1/2"	
FD-2	ROUND RECESSED GRATE FLOOR DRAIN	3"	1-1/2"	
MCO-1	WALL CLEAN OUT		-	

WATER SPEC. SCHEDULE

TAG	ITEM	CW	HW	OUTLET	REMARKS
BFP-1	WATER ENTRANCE BACKFLOW PREVENTERS	1-1/2"	-	SAME	1" IDN
BFP-2	BOILER MAKE-UP WATER	3/4"	-	SAME	
ET-1	EXPANSION TANK POTABLE WATER	3/4"	-	-	
HB-1	NON-FREEZE HOSE BIB W/ VB	3/4"	-	3/4" GHT	
MV-1	MASTER MIXING VALVE	1/4"	1/4"	1-1/2"	120°
SA-1	SHOCK ABSORBER	1/2" OR 3/4"	-	-	P.D.I. A
TP-1	TRAP SEAL PRIMER	1/2"	-	SAME	W/ SPLITTER

PUMP SCHEDULE

TAG	ITEM	SERVICE	GPM	HEAD	HP	VOLTS	REMARKS
DGP-1	DOMESTIC RECIRC PUMP	120° HW RECIRC LOOP	7	10'	1/25	115 SINGLE	3/4" BRONZE ELEC. BY DIV. 16
EP-2	PACKAGED LIFT PUMP	WASTE LIFT BOILER RM	20	30'	1/2HP	115 SINGLE	ALARM ELEC. BY EC

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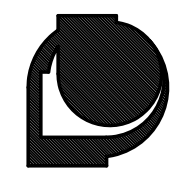
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